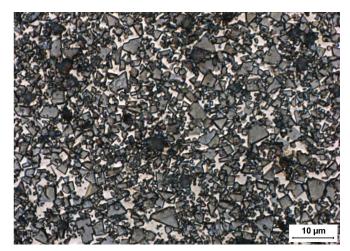


GC-618CT



Microstructure

PERFORMANCE CH	ARACT	ERISTICS
	LESS	MORE
Wear Resistance		
Impact Resistance		
Galling Resistance		
Corrosion Resistance		

To ensure the highest metallurgical quality, General Carbide processes all grades in sinter-HIP furnaces.

Composition		
Tungsten Carbide (6.0 micron)	78.0%	
Cobalt	18.0%	
Tantalum Carbide	3.0%	
Other	1.0%	

Physical Properties		
Hardness, HRA (ASTM B294)	86.5 - 87.5	
Density, g/cc (ASTM B311)	13.51 - 13.65	
Average Transverse Rupture Strength, psi (ASTM B406)	450,000	
Typical Porosity (ASTM B276)	A02-B00-C00	

Grade Attributes

This structure, containing coarse tungsten carbide particles, is coupled with a medium binder content to provide an impact resistant grade with simultaneous good resistance to fatigue failure. The tantalum carbide additive ensures high resistance to galling.

Typical Applications

- > Metalforming Punches
- > Dies
- > Heading Die Inserts



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